

Amendments to the Claims

Claim 1 (currently amended): A fuel composition useful for a spark ~~or a compression~~ ignition internal combustion engine, comprising:

a gasoline hydrocarbon fuel; and

a combination of nitrogen-containing detergents comprising a hydrocarbyl-substituted polyamine wherein the hydrocarbyl substituent is derived from a polyisobutylene having a number average molecular weight of about 700 to 2000; and a Mannich reaction product of an alkyl-substituted hydroxyaromatic compound wherein the alkyl substituent is derived from a polyolefin having a number average molecular weight of 900 to 1500 wherein the polyolefin is a polyisobutylene having at least 70% of the olefinic double bonds as vinylidene double bonds and wherein the hydroxyaromatic compound comprises phenol or ortho-cresol or mixtures thereof, an aldehyde wherein the aldehyde is formaldehyde, and a polyamine having at least one reactive N-H group; and

~~a fluidizer comprising a polyether, a polyetheramine, or mixtures thereof; wherein the weight ratio of the hydrocarbyl-substituted polyamine to the Mannich reaction product is about 0.75:1 to 1:0.75; 0.5:1 to 1:0.5; each of the nitrogen-containing detergents is present at about 20-100 ppm by weight; and the combination of nitrogen-containing detergents is present at or greater than about 60 ppm by weight; the weight ratio of the fluidizer to the combination of nitrogen-containing detergents is less than 0.2; the polyether is represented by the formula $RO[CH_2CH(R^1)O]_xH$ wherein R is a hydrocarbyl group; R^1 is selected from the group consisting of hydrogen, alkyl groups of 1 to about 14 carbon atoms, and mixtures thereof; and x is a number from 2 to about 50; and the polyetheramine is represented by the formula $R[OCH_2CH(R^1)]_nA$ wherein R and R^1 are as described for the polyether; n is a number from 2 to about 50; and A is selected from the group consisting of $OCH_2CH_2CH_2NR^2R^3$ and NR^3R^3 wherein each R^2 is independently hydrogen or a hydrocarbyl group of one or more carbon atoms; and each R^3 is independently hydrogen, a hydrocarbyl group of one or more carbon atoms, or $[R^4N(R^5)]_pR^6$ wherein R^4 is a C_2-C_{10} alkylene, R^5 and R^6 are independently hydrogen or a hydrocarbyl group of one or more carbon atoms, and p is a number from 1 to about 7.~~

Claim 2 (canceled)

Claim 3 (original): The fuel composition of claim 1 wherein each of the nitrogen-containing detergents is present at about 22-80 ppm by weight.

Claims 4-5 (canceled)

Claim 6 (currently amended): The fuel composition of claim 1 wherein the hydrocarbyl substituent of the hydrocarbyl-substituted polyamine is derived from a polyisobutylene polyolefin having a number average molecular weight of about 900-1500.

Claim 7 (canceled)

Claim 8 (original): The composition of claim 6 wherein the hydrocarbyl-substituted polyamine is derived from the group consisting of ethylenediamine, diethylenetriamine, N,N-dimethyl-1,3-propanediamine, 2-(2-aminoethylamino)ethanol, and mixtures thereof.

Claims 9-11 (canceled)

Claim 12 (currently amended): The fuel composition of claim ~~1~~ ~~4~~ wherein the ~~aldehyde of the Mannich reaction product is formaldehyde; and the~~ polyamine of the Mannich reaction product is derived from the group consisting of ethylenediamine, propylenediamine, diethylenetriamine, N,N'-dimethylethylenediamine, N,N,N'-trimethylethylenediamine, N,N-dimethylethylenediamine, N,N-dimethylpropylenediamine, N,N'-dimethylpropylenediamine, 2-(2-aminoethylamino)ethanol, and mixtures thereof.

Claim 13 (currently amended): The fuel composition of claim 1 ~~wherein the hydrocarbon fuel is a gasoline or a diesel fuel; and wherein the gasoline or diesel fuel~~ optionally contains an oxygenate comprising methanol, ethanol, methyl tert-butyl ether, ethyl tert-butyl ether, methyl tert-amyl ether, or mixtures thereof.

Claim 14 (original): A method of operating an internal combustion engine, comprising fueling the engine with the fuel composition of claim 13.

Claim 15 (original): A method of controlling deposits in an internal combustion engine, comprising fueling the engine with the fuel composition of claim 13.

Claim 16 (new): The fuel composition of claim 1 wherein the weight ratio of the hydrocarbyl-substituted polyamine to the Mannich reaction product is about 1:1.

Claim 17 (new): The fuel composition of claim 1 further comprising a fluidizer comprising a polyether, a polyetheramine, or mixtures thereof wherein the weight ratio of the fluidizer to the combination of the nitrogen-containing detergents is less than 0.2.